

=====

Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Fri Aug 03 17:24:13 EDT 2007

=====

Application No: 09937100 Version No: 3.1

Input Set:

Output Set:

Started: 2007-08-03 17:23:57.338
Finished: 2007-08-03 17:24:00.118
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 780 ms
Total Warnings: 66
Total Errors: 8
No. of SeqIDs Defined: 66
Actual SeqID Count: 66

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)

Input Set:

Output Set:

Started: 2007-08-03 17:23:57.338
Finished: 2007-08-03 17:24:00.118
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 780 ms
Total Warnings: 66
Total Errors: 8
No. of SeqIDs Defined: 66
Actual SeqID Count: 66

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20) This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> CARR, FRANCIS J.

<120> PROTEIN ISOLATION AND ANALYSIS

<130> MERCK-2309

<140> 09/937,100

<141> 2001-09-20

<150> PCT/GB00/01015

<151> 2000-03-17

<150> GB 9906551.8

<151> 1999-03-23

<150> GB 9907057.5

<151> 1999-03-29

<150> GB 9907641.6

<151> 1999-04-06

<150> GB 9914874.4

<151> 1999-06-28

<150> GB 9915363.7

<151> 1999-07-02

<150> GB 9915677.0

<151> 1999-07-06

<150> GB 9916511.0

<151> 1999-07-14

<150> GB 9920503.1

<151> 1999-08-31

<150> GB 9922285.3

<151> 1999-09-21

<160> 66

<170> PatentIn Ver. 3.3

<210> 1

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1

Asp Asp Asp Asp Lys

1

5

<210> 2
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> CDS
<222> (1)..(24)

<220>
<221> modified_base
<222> (1)
<223> a, c, g or t

<220>
<221> modified_base
<222> (4)
<223> a, c, g or t

<220>
<221> modified_base
<222> (7)
<223> a, c, g or t

<220>
<221> modified_base
<222> (10)
<223> a, c, g or t

<220>
<221> modified_base
<222> (20)
<223> a, c, g or t

<220>
<221> modified_base
<222> (23)
<223> a, c, g or t

<400> 2
nac ncc ngg ntg tkc vag gnv cnt
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

24

<210> 3
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (1)

<223> Asn, Asp, His or Tyr

<220>

<221> MOD_RES

<222> (2)

<223> Thr, Pro, Ala or Ser

<220>

<221> MOD_RES

<222> (3)

<223> Arg, Gly or Trp

<220>

<221> MOD_RES

<222> (4)

<223> Leu, Met or Val

<220>

<221> MOD_RES

<222> (5)

<223> Phe or Cys

<220>

<221> MOD_RES

<222> (6)

<223> Gln, Glu or Lys

<220>

<221> MOD_RES

<222> (7)

<223> Asp, Val, Ala, Gly or Glu

<220>

<221> MOD_RES

<222> (8)

<223> His, Leu, Pro or Arg

<400> 3

Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

<210> 4

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 4

Ile Glu Gly Arg

1

<210> 5

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 5

Pro Gly Ala Ala His Tyr

1

5

<210> 6

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 6

Leu Val Pro Arg Gly Ser

1

5

<210> 7

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 7

Asp Asp Asp Asp

1

<210> 8

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 8

Pro Gly Ala Ala His

1 5

<210> 9

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 9

Leu Val Pro Arg

1

<210> 10

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 10

Leu Val Pro Arg Gly

1 5

<210> 11

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 11

Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Val Asp

1 5 10

<210> 12

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 12

Met Asp Tyr Lys Asp Asp Asp Lys

<210> 13

<211> 53

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 13

gcggatccca tatggactac aaagacgatg acgacaaaca ggtgcagctg cag 53

<210> 14

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 14

gcgaattcgt ggtggtggtg gtggtgtgac tctcc 35

<210> 15

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 15

atggaattcc tcgagaccga caccctacag gcggaaaccg accagctgga 50

<210> 16

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 16

tcgcgatttc ggtttgcagc gcggattttt cgtcttccag ctggtcggtt 50

<210> 17

<211> 50

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 17
 aaaccgaaat cgcgaaacctg ctgaaagaaa aagaaaagct ggagttcatc 50

 <210> 18
 <211> 50
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 18
 ggaagcttga attccgccgg acggtgtgcc gccaggatga actccagctt 50

 <210> 19
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 19
 atggaattcc tcgagacc 18

 <210> 20
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 20
 ggaagcttga attccgcc 18

 <210> 21
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic

primer

<400> 21

cagctgcagg agtctggggg aggcttag

28

<210> 22

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 22

tcagtagacg gtgaccgagg ttccttgacc ccagta

36

<210> 23

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 23

gtgacattga gctcacacag tctcct

26

<210> 24

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 24

cagcccggtt tatctcgagc ttggtccg

28

<210> 25

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 25

gcggatccca tatgcaccat catcaccatc accaggtgca gctgcag

47

<210> 26
 <211> 50
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 26
 atgagaattc tcgagcgtat cgctcgtctg gaagaaaaag ttaaaaccct 50

 <210> 27
 <211> 50
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 27
 tagcgggtgga agccagttcg gagttctgag ctttcagggt tttaactttt 50

 <210> 28
 <211> 50
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 28
 tggcttcac cgctaacatg ctgcgtgaac aggttgctca gctgaaacag 50

 <210> 29
 <211> 45
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 29
 catgcgaatt cgtggttcat aactttctgt ttcagctgag caacc 45

 <210> 30
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 30
atgagaattc tcgagcg 17

<210> 31
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 31
catgcgaatt cgtggttc 18

<210> 32
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 32
agatctcgat cccgcaaatt a 21

<210> 33
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 33
aaataggcgt atcacgaggc c 21

<210> 34
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
6xHis tag

<400> 34

His His His His His His

1 5

<210> 35

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 35

agatccctac tataggta

18

<210> 36

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 36

ggtgagctcg atgtatcc

18

<210> 37

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 37

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser

1 5 10 15

<210> 38

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (19)..(24)

<223> This region may encompass 'atgatg', 'cancan', 'agnagn',
'aanaan', 'gangan' or 'ttnttn' wherein n is a, c, g,
or t

<400> 38

ggccgcgagg aagaggaann nnnngc

26

<210> 39

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (7)..(12)

<223> This region may encompass 'naanaa', 'ntcntc', 'ngtngt',
'nctnct', 'nagnag' or 'catcat' wherein n is a, c, g,
or t

<400> 39

ggccgcnnnn nntcctttct cctcgc

26

<210> 40

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 40

ttaatacgac tcactata

18

<210> 41

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 41

agctaatacg actcactata

20

<210> 42

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 42

Asp Tyr Lys Asp Asp Asp Asp Lys
1 5

<210> 43

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 43

gggcagatct ttaactttaa gaaggagata tacatatgaa atacctattg cctacgg 57

<210> 44

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 44

gggtctgggt cataacgata tcggccatcg ctggttgggc agc 43

<210> 45

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 45

ggtaccaaac tggagatcaa acggactgtg gctgcaccat ct 42

<210> 46

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 46

agatggtgca gccacagtcc gtttgatctc cagtttggtta cc 42

<210> 47

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 47

gatcgaattc ctaacactct ccgcggttga agctctttg 39

<210> 48

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 48

gatcgaattc taactttaag aaggagatat acatatg 37

<210> 49

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 49

ggactgaacc agttggactt cggccatcgc tggttgggca gc 42

<210> 50

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 50

accctgggta ccgtctctc agcctccacc aagggcccat c 41

<210> 51
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 51
gatgggccct tgggtggaggc tgaggagacg gtaaccaggg tac 43

<210> 52
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 52
gatcgagctc tgctttcttg tccaccttgg tgttgc 36

<210> 53
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 53
cccaaattctt gcgctgcaga ctacaaagac gacgacgaca aatagctcga gc 52

<210> 54
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 54
ttaagctcga gctatttgtc gtcgtcgtct ttgtagtctg cagcgcaaga tttggg 56

<210> 55
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 55
gaagacgtcg ctgtttac 18

<210> 56
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 56
ggtaccaagc ttgagatc 18

<210> 57
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 57
ctactgcgcg cgtgaaaaag 20

<210> 58
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 58
gggtcagggg accctgg 17

<210> 59
<211> 77
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (31)..(32)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (34)..(35)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (37)..(38)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (40)..(41)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (43)..(44)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (46)..(47)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (49)..(50)
<223> a, c, g, or t

<400> 59
gaagacgtcg ctgtttacta ctgccagcag nnsnnsnnsn nsnnnsnnsn saccttcggt 60
ggtggtacca agcttg 77

<210> 60
<211> 77
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (28)..(29)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (31)..(32)

<223> a, c, g, or t

<220>

<221> modified_base

<222> (34)..(35)

<223> a, c, g, or t

<220>

<221> modified_base

<222> (37)..(38)

<223> a, c, g, or t

<220>

<221> modified_base

<222> (40)..(41)

<223> a, c, g, or t

<220>

<221> modified_base

<222> (43)..(44)

<223> a, c, g, or t

<220>

<221> modified_base

<222> (46)..(47)

<223> a, c, g, or t

<400> 60

ccaagcttgg taccaccacc gaaggtsnns nnsnnsnnsn nsnnsnctg ctggcagtag 60

taaacagcga cgtcttc

77

<210> 61

<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (14)..(15)

<223> a, c, g, or t

<220>

<221> modified_base

<222> (17)..(18)

<223> a, c, g, or t

<220>

<221> modified_base

<222> (20)..(21)

<223> a, c, g, or t

<220>

<221> modified_base
<222> (23)..(24)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (26)..(27)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (29)..(30)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (32)..(33)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (35)..(36)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (38)..(39)
<223> a, c, g, or t

<220>
<221> modified_base
<222> (41)..(42)
<223> a, c, g, or t

<400> 61
ctactgcgcg cgtnnnsnnsn nsnnnsnnsn snnsnnsnns nnsttcgctt actgggggtca 60
ggggaccctt